

CLEAN COPY OF AMENDED CLAIMS

35. (AMENDED) A method for transforming a tissue of corn comprising the steps of:

C1

- (a) co-cultivating an immature embryo from said tissue at a temperature of about 15°C to about 22°C with *Agrobacterium* capable of transferring at least one genetic element to said tissue to produce an infected embryo;
- (b) culturing the infected embryo on a medium comprising an antibiotic;
- (c) culturing resulting tissue on a medium comprising a selective agent;
- (d) selecting transformed tissue having Type II callus; and
- (e) regenerating transgenic plants from said Type II callus.

37. (AMENDED) A method for transforming a tissue of corn comprising the steps of:

C2

- (a) co-cultivating an immature embryo from said tissue with *Agrobacterium* capable of transferring at least one genetic factor to said tissue to produce an infected embryo, wherein said *Agrobacterium* is taken from *Agrobacterium* about 0.5 to about 5 days after rescue from frozen glycerol stocks;
- (b) culturing the infected embryo to initiate callus on a medium comprising an antibiotic;
- (c) culturing the resulting callus tissue on a medium comprising a selective agent;
- (d) selecting transformed callus tissue having Type II callus; and
- (e) regenerating transgenic plants from said growing Type II callus.

42. (AMENDED) A method for transforming a tissue of corn using *Agrobacterium* comprising the steps of:

(a) initiating co-cultivation of an immature embryo from said tissue with *Agrobacterium* capable of transferring at least one genetic factor to said tissue to produce an infected embryo;

(b) applying heat shock treatment during said co-cultivation;

(c) culturing the infected embryo to initiate callus on a medium comprising an antibiotic and glucose;

(d) culturing the resulting callus tissue on a medium comprising a selective agent;

(e) selecting transformed callus tissue having Type II callus; and

(f) regenerating transgenic plants from said Type II callus.

C3